PRYMAX

Safety Data Sheet according to Regulation (EC) No. 2015/830

SECTION 1: Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier

Product Name: PRYMAX POND/DAMP SEALER

PS001

Revision Date: 05/01/2018

Supercedes Date: New SDS

1.2 Relevant identified uses of the substance or mixture and uses advised against

Monocomponent industrial coating - Industrial use.

1.3 Details of the supplier of the safety data sheet

Manufacturer:

CFSNET Ltd

United Downs Industrial Park
St Day, Redruth
Cornwall
TR16 5HY

Regulatory / Technical Information:
+44(0) 1209 821028
www.cfsnet.co.uk

Datasheet Produced by: Norton, Catherine - info@usluk.com

1.4 Emergency telephone number: 0800 246 1274

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

HAZARD STATEMENTS

Flammable Liquid, category 3	H226
Aspiration Hazard, category 1	H304
Skin Irritation, category 2	H315
Skin Sensitizer, category 1	H317
Eye Irritation, category 2	H319
Acute Toxicity, Inhalation, category 4	H332
Respiratory Sensitizer, category 1	H334
STOT, single exposure, category 3, RTI	H335
STOT, single exposure, category 3, NE	H336
Carcinogenicity, category 2	H351

STOT, repeated exposure, category 2	H373
Hazardous to the aquatic environment, Chronic, category 2	H411

2.2 Label elements

Symbol(s) of Product

Signal Word

Danger

Named Chemicals on Label

4,4'-methylenediphenyl diisocyanate, n-butyl acetate, 2,2'-methylenediphenyl diisocyanate, tosyl isocyanate, diphenylmethane-2,4'-diisocyanate, isocyanic acid, polymethylenepolyphenylene ester, solvent naphtha (petroleum), light arom.

HAZARD STATEMENTS

Flammable Liquid, category 3	H226	Flammable liquid and vapour.
Aspiration Hazard, category 1	H304	May be fatal if swallowed and enters airways.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
Respiratory Sensitizer, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment, Chronic, category 2	H411	Toxic to aquatic life with long lasting effects when in water course in uncured, liquid form.

PRECAUTION PHRASES

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/ face protection.
P284	Wear respiratory protection.
P285	In case of inadequate ventilation wear respiratory protection.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P308+313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P331	Do NOT induce vomiting.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P341	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P391	Collect spillage.
P403+233	Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards
No Information

Results of PBT and vPvB assessment:
The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

SECTION 3: Composition/Information On Ingredients

3.2 Mixtures

Hazardous Ingredients

CAS-No.	EINEC No.	Name According to EEC	%
9016-87-9	618-498-9	isocyanic acid, polymethylenepolyphenylene ester	25-50
64742-95-6	265-199-0	solvent naphtha (petroleum), light arom.	10-25
101-68-8	202-966-0	4,4'-methylenediphenyl diisocyanate	2.5-10
108-67-8	203-604-4	mesitylene	2.5-10
123-86-4	204-658-1	n-butyl acetate	2.5-10
5873-54-1	227-534-9	diphenylmethane-2,4'-diisocyanate	1.0-2.5
4083-64-1	223-810-8	tosyl isocyanate	0.1-1.0
2536-05-2	219-799-4	2,2'-methylenediphenyl diisocyanate	0.1-1.0
77-58-7	201-039-8	dibutyltin dilaurate	<0.1
98-59-9		tosyl chloride	<0.1

CAS-No.	REACH Reg No.	CLP Symbols	CLP Hazard Statements	M-Factors
9016-87-9		GHS07-GHS08	H315-317-319-332-334-335-351-373	
64742-95-6		GHS02-GHS07-GHS08-GHS09	H226-304-335-336-411	
101-68-8	01-2119457014-47	GHS07-GHS08	H315-317-319-332-334-335-351-373	
108-67-8		GHS02-GHS07-GHS09	H226-335-411	
123-86-4	01-2119485493-29	GHS02-GHS07	H226-336	
5873-54-1		GHS07-GHS08	H315-319-334-335	
4083-64-1		GHS07-GHS08	H315-319-334-335	
2536-05-2		GHS07-GHS08	H315-319-334-335	
77-58-7		GHS05-GHS07-GHS08-GHS09	H314-317-341-360-370-400	1
98-59-9				

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

SECTION 4: First-aid Measures

4.1 Description of First Aid Measures

GENERAL NOTES: When symptoms persist or in all cases of doubt seek medical advice. Remove contaminated clothing and shoes.
AFTER INHALATION: Move to fresh air. Give oxygen or artificial respiration if needed. Keep respiratory tract clear.
AFTER SKIN CONTACT: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.
AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention.

Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Harmful by inhalation. Do not ingest. Irritating to eyes and skin. Risk of serious damage to the lungs (by aspiration). Vapours may cause drowsiness and dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Fire-fighting Measures

5.1 Extinguishing Media:

Alcohol Foam, Carbon Dioxide, Dry Chemical, Water Fog

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above. Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Flammable.

5.3 Advice for firefighters

Flash back possible over considerable distance. In the event of fire, wear self-contained breathing apparatus. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

FURTHER INSTRUCTIONS: Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Vapours may form explosive mixtures with air. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Keep product and empty container away from heat and sources of ignition. Keep away from sources of ignition - No smoking. Do not use sparking tools.
Keep working clothes separately. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice for diagnostics.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Direct sources of heat. Strong sunlight for prolonged periods.
STORAGE CONDITIONS: Store in original container. Keep in an area equipped with solvent resistant flooring. Keep locked up or in an area accessible only to qualified or authorised persons. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits
(UK WELS)

Name	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
isocyanic acid, polymethylenepolyphenylene ester	9016-87-9			0.07	0.02
solvent naphtha (petroleum), light arom.	64742-95-6				
4,4'-methylenediphenyl diisocyanate	101-68-8			0.07	0.02

mesitylene	108-67-8	25			125
n-butyl acetate	123-86-4	150	200	966	724
diphenylmethane-2,4'-diisocyanate	5873-54-1			0.07	0.02
tosyl isocyanate	4083-64-1				
2,2'-methylenediphenyl diisocyanate	2536-05-2				
dibutyltin dilaurate	77-58-7				
tosyl chloride	98-59-9			5	

Name	CAS-No.	OEL Note
isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	
solvent naphtha (petroleum), light arom.	64742-95-6	
4,4'-methylenediphenyl diisocyanate	101-68-8	
mesitylene	108-67-8	
n-butyl acetate	123-86-4	
diphenylmethane-2,4'-diisocyanate	5873-54-1	
tosyl isocyanate	4083-64-1	
2,2'-methylenediphenyl diisocyanate	2536-05-2	
dibutyltin dilaurate	77-58-7	
tosyl chloride	98-59-9	

FURTHER ADVICE: Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: Respirator with combination filter for vapour/particulate (EN 141).

EYE PROTECTION: Eye wash bottle with pure water. Safety glasses with side-shields conforming to EN166.

HAND PROTECTION: Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Long sleeved clothing. Remove and wash contaminated clothing before re-use.

OTHER PROTECTIVE EQUIPMENT: No Information

ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

Chemical Name:

isocyanic acid, polymethylenepolyphenylene ester

EC No.: 618-498-9

CAS-No.: 9016-87-9

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					20 mg/kg bw/day		
Inhalation								
Dermal		50 mg/kg bw/day				50 mg/kg bw/day		

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	
Fresh water sediments	
Marine water	
Marine sediments	
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	1 mg/kg
Air	

Chemical Name:

solvent naphtha (petroleum), light arom.

EC No.: 265-199-0

CAS-No.: 64742-95-6

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							11 mg/kg
Inhalation				150 mg/m³				32 mg/m³
Dermal				25 mg/kg				11 mg/kg

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	
Fresh water sediments	
Marine water	
Marine sediments	
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	
Air	

Chemical Name:

4,4'-methylenediphenyl diisocyanate

EC No.: 202-966-0

CAS-No.: 101-68-8

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					20 mg/kg body weight/day		
Inhalation	0.1 mg/m³ air	0.1 mg/m³ air	0.05 mg/m³ air	0.05 mg/m³ air	0.05 mg/m³ air	0.05 mg/m³ air	0.025 mg/m³ air	0.025 mg/m³ air
Dermal	28.7 mg/kg	50 mg/kg body weight/day			17.2 mg/kg	25 mg/kg body weight/day		

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	>1 mg/l
Fresh water sediments	
Marine water	>0.1 mg/l
Marine sediments	
Food chain	
Microorganisms in sewage treatment	>1 mg/l
soil (agricultural)	>1 mg/kg dry weight
Air	

Chemical Name:

diphenylmethane-2,4'-diisocyanate

EC No.: 227-534-9

CAS-No.: 5873-54-1

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					20 mg/kg body weight/day		
Inhalation	0.1 mg/m³ air	0.1 mg/m³ air	0.05 mg/m³ air	0.05 mg/m³ air	0.05 mg/m³ air	0.05 mg/m³ air	0.025 mg/m³ air	0.025 mg/m³ air
Dermal	28.7 mg/kg	50 mg/kg body weight/day			17.2 mg/kg	25 mg/kg body weight/day		

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	> 1 mg/l
Fresh water sediments	
Marine water	>0.1 mg/l
Marine sediments	
Food chain	
Microorganisms in sewage treatment	>1 mg/l
soil (agricultural)	>1 mg/kg dry weight
Air	

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Clear liquid
Physical State	Liquid
Odor	Aromatic
Odor threshold	Not determined

pH	Not determined
Melting point / freezing point (°C)	Not determined
Boiling point/range (°C)	125 - N.D.
Flash Point, (°C)	27°C
Evaporation rate	0.21
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	0.8 - 7
Vapour Pressure	>1
Vapour density	Not determined
Relative density	Not determined
Solubility in / Miscibility with water	Immiscible in water (reacts)
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	Not determined
Decomposition temperature (°C)	Not determined
Viscosity	Not determined
Explosive properties	Not determined
Oxidising properties	Product is not oxidising

9.2 Other information

VOC Content g/l:	332
Specific Gravity (g/cm3)	1.000

SECTION 10: Stability and Reactivity

10.1 Reactivity
No reactivity hazards known under normal storage and use conditions. Explosive reaction may occur on heating or burning.

10.2 Chemical stability
Stable under recommended storage conditions. Risk of ignition.

10.3 Possibility of hazardous reactions
No Information

10.4 Conditions to avoid
Direct sources of heat. Strong sunlight for prolonged periods.

10.5 Incompatible materials
Do not store together with oxidizing and self-igniting products.

10.6 Hazardous decomposition products
Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50:	No Information
Inhalation LC50:	No Information

Irritation: Irritant for skin and mucous membranes. May cause sensitisation. May cause eye irritation. Ingestion may result in irritation to the gastro intestinal tract. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.

Corrosivity: No information available.

Sensitization: Recognised allergen. May also cause sensitisation by skin contact.

Repeated dose toxicity: Prolonged inhalation of high concentrations may damage the respiratory system.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: Harmful by inhalation. May cause sensitisation by inhalation. Vapour concentrations above the recommended exposure levels are irritating to the eyes and respiratory tract, and may cause headaches, dizziness and have other CNS effects.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name According to EEC	Oral LD50	Dermal LD50	Vapor LC50
9016-87-9	isocyanic acid, polymethylenepolyphenylene ester	>5000 mg/kg	>9400 mg/kg	
64742-95-6	solvent naphtha (petroleum), light arom.	3592 mg/kg	> 3,160 mg/kg	> 6193 mg/m3
101-68-8	4,4'-methylenediphenyl diisocyanate	>5000mg/kg	>9400 mg/kg	
123-86-4	n-butyl acetate	10760 mg/kg, rat, oral		23.4 mg/l/4/h (rat)
5873-54-1	diphenylmethane-2,4'-diisocyanate	>2000 mg/kg	>9400 mg/kg	
4083-64-1	tosyl isocyanate	2600 mg/kg oral, rat		
2536-05-2	2,2'-methylenediphenyl diisocyanate		> 9400 mg/kg	
77-58-7	dibutyltin dilaurate	>2000 mg/kg, oral, rat		

Additional Information:
No Information

SECTION 12: Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia): No information

IC50 72hr (Algae): No information

LC50 96hr (fish): No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB assessment: The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

12.6 Other adverse effects: There is no data available on the product itself. Hazardous for water. Do not allow the product to reach ground water, water bodies or sewage systems. Must not reach sewage water or drainage ditch undiluted or unneutralised. The liquid product may be neutralised with a mixture of ammonia solution (190g/ltr), water and ethanol.

CAS-No.	Name According to EEC	EC50 48hr	IC50 72hr	LC50 96hr

9016-87-9	isocyanic acid, polymethylenepolyphenylene ester	No information	1640 mg/l	>1000 mg/l
64742-95-6	solvent naphtha (petroleum), light arom.			9,2 mg/l
101-68-8	4,4'-methylenediphenyl diisocyanate	>1000 mg/l	No information	>1000 mg/l
108-67-8	mesitylene	No information	No information	
123-86-4	n-butyl acetate	No information	No information	
5873-54-1	diphenylmethane-2,4'-diisocyanate	>1000 mg/l	>1640 mg/l	>1000 mg/l
4083-64-1	tosyl isocyanate	No information	No information	
2536-05-2	2,2'-methylenediphenyl diisocyanate	>1000 mg/l	>1640 mg/l	>1000 mg/l
77-58-7	dibutyltin dilaurate	No information	No information	
98-59-9	tosyl chloride	No information	No information	No information

SECTION 13: Disposal Considerations

13.1 **WASTE TREATMENT METHODS:** Do not burn, or use a cutting torch on, the empty drum. Dispose of as hazardous waste in compliance with local and national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. The product should not be allowed to enter drains, water courses or the soil.

European Waste Code: No Information
Packaging Waste Code: 150110

SECTION 14: Transport Information

14.1	**UN number**	1866
14.2	**UN proper shipping name**	Resin solution, flammable
	Technical name	Not applicable
14.3	**Transport hazard class(es)**	3
	Subsidiary shipping hazard	Not applicable
14.4	**Packing group**	III
14.5	**Environmental hazards**	Marine Pollutant
14.6	**Special precautions for user**	Not applicable
	EmS-No.:	F-E , S-E
14.7	**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**	Not applicable

SECTION 15: Regulatory Information

15.1 **Safety, health and environmental regulations/legislation for the substance or mixture:**

National Regulations:

Denmark Product Registration Number: Not available

Danish MAL Code: Not available

Danish MAL Code - Mixture: Not available

Sweden Product Registration Number: Not available

Norway Product Registration Number: Not available

Germany WGK Class: Not available

Covered by Directive 2012/18/EC (Seveso III): Not applicable

Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006: Entry 56

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other Information

Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Reasons for revision

Changes have been made to Section 4 of the Safety Data Sheet (SDS). Please refer to the First Aid Measures information in Section 4 of this SDS.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark;
European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;
European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP);
EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits

VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.